



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Takahiro Yamaguchi, et al.  
Serial No.: 09/811,153  
Filing Date: March 16, 2001  
Title: Apparatus for and Method of  
Measuring Jitter  
Conf. No. 5797

Examiner: Dac V. Ha

Art Unit: 2634

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**SUBMISSION OF FORMAL REPLACEMENT DRAWINGS**

Sir:

Applicants submit herewith five sheets of formal replacement drawings for the U.S. patent application captioned above.

These drawings incorporate the legend "Prior Art" on Figures 1-4, 5A, 5B, 6 and 10A as requested by the Examiner in the Office Action mailed June 21, 2004.

Respectfully submitted,

  
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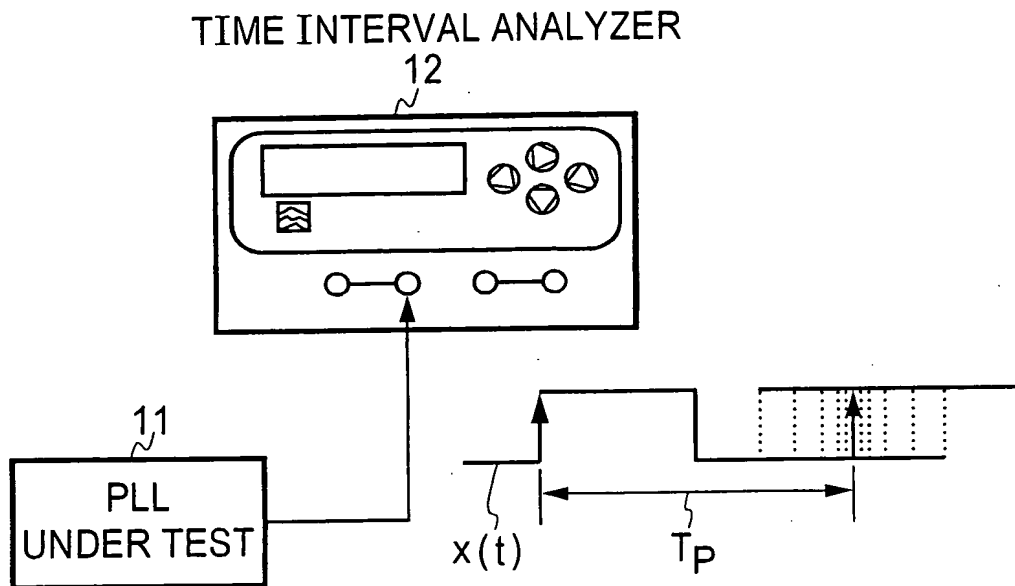
I certify that this Submission of Formal Drawings and all enclosed materials are being deposited with the United States Postal Service on September 3, 2004 with sufficient postage as first class mail in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450..

  
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Enc. Replacement drawings (5)  
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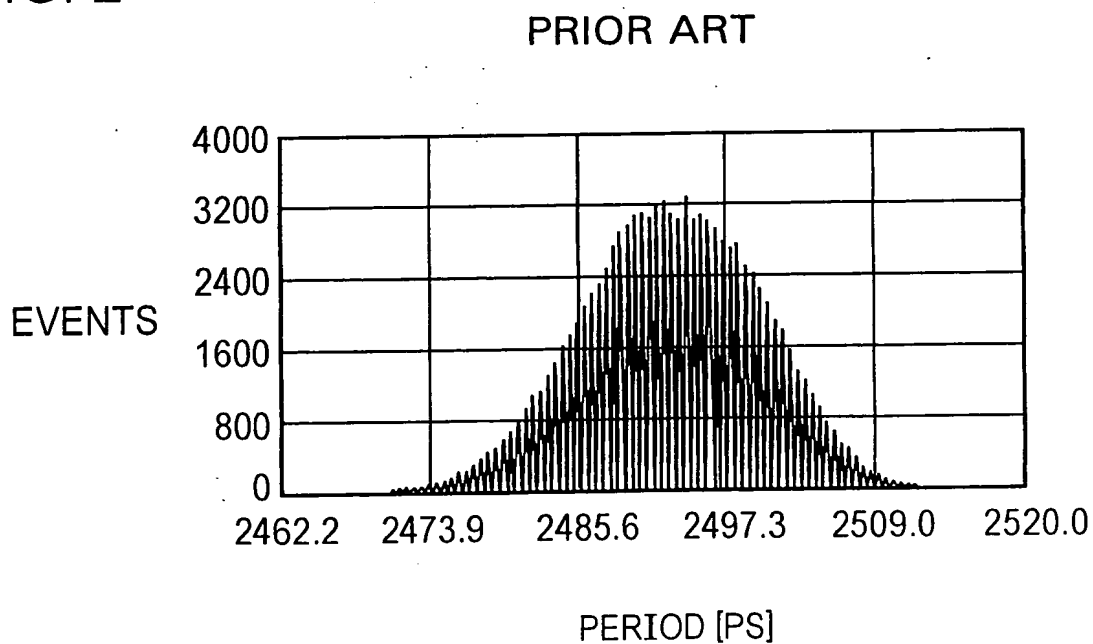


FIG. 1



PRIOR ART

FIG. 2



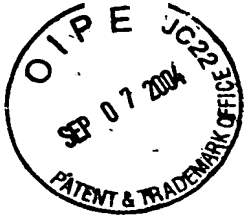


FIG. 3

PRIOR ART

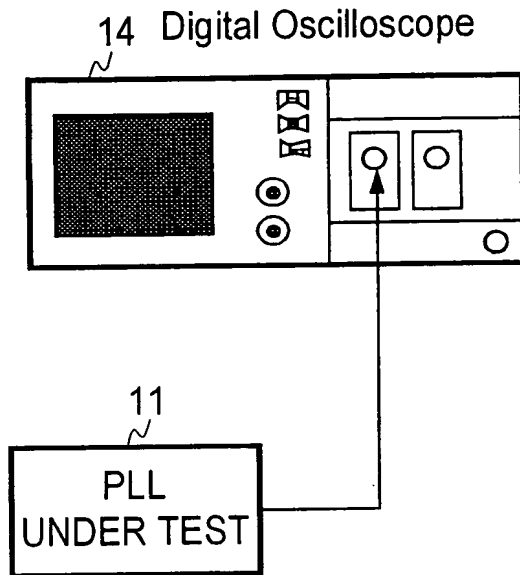


FIG. 4

PRIOR ART

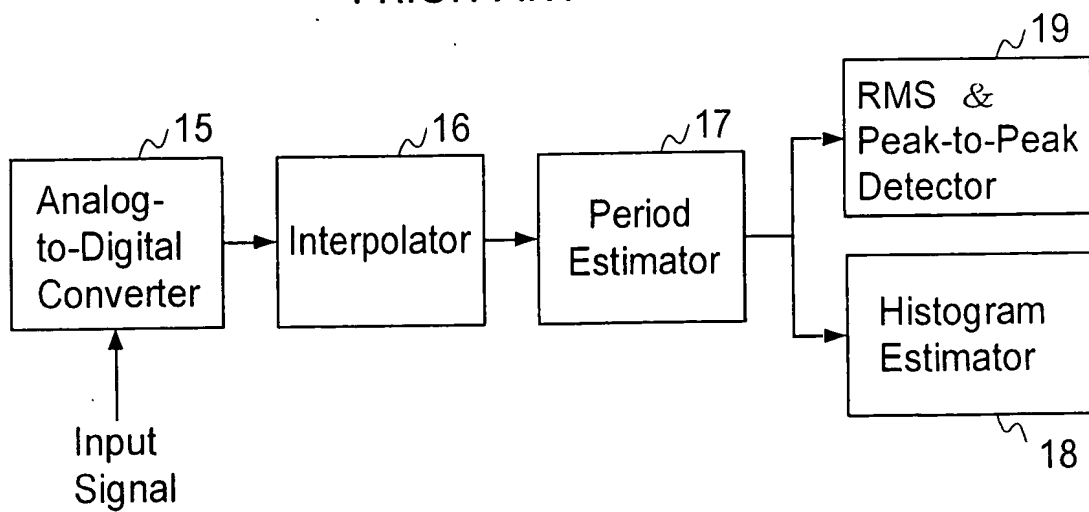




FIG. 5A

PRIOR ART

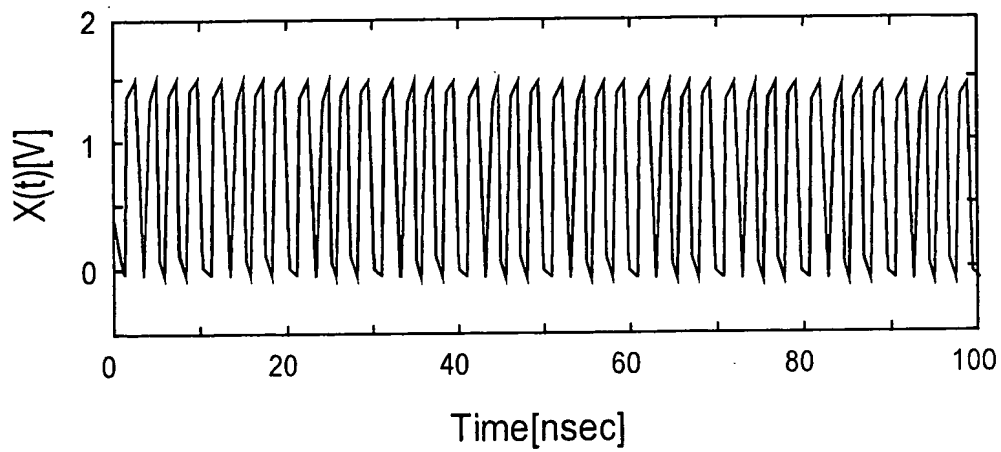
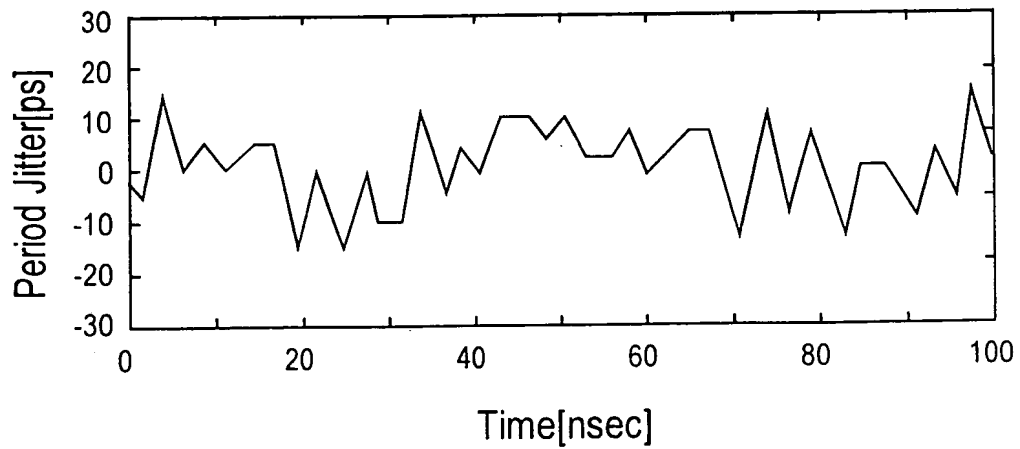
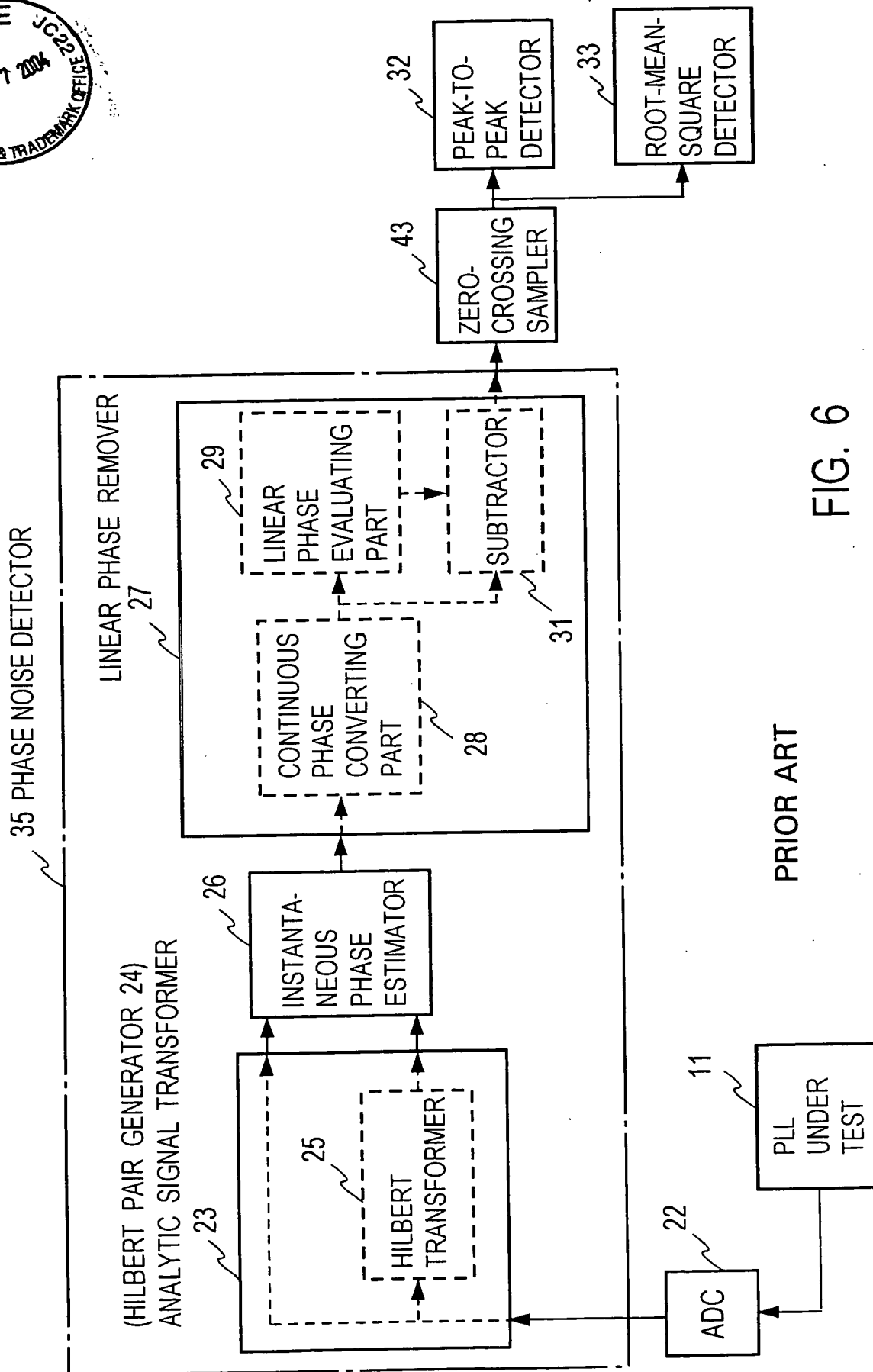


FIG. 5B

PRIOR ART





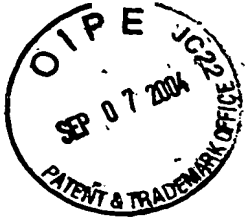


FIG. 10A

PRIOR ART

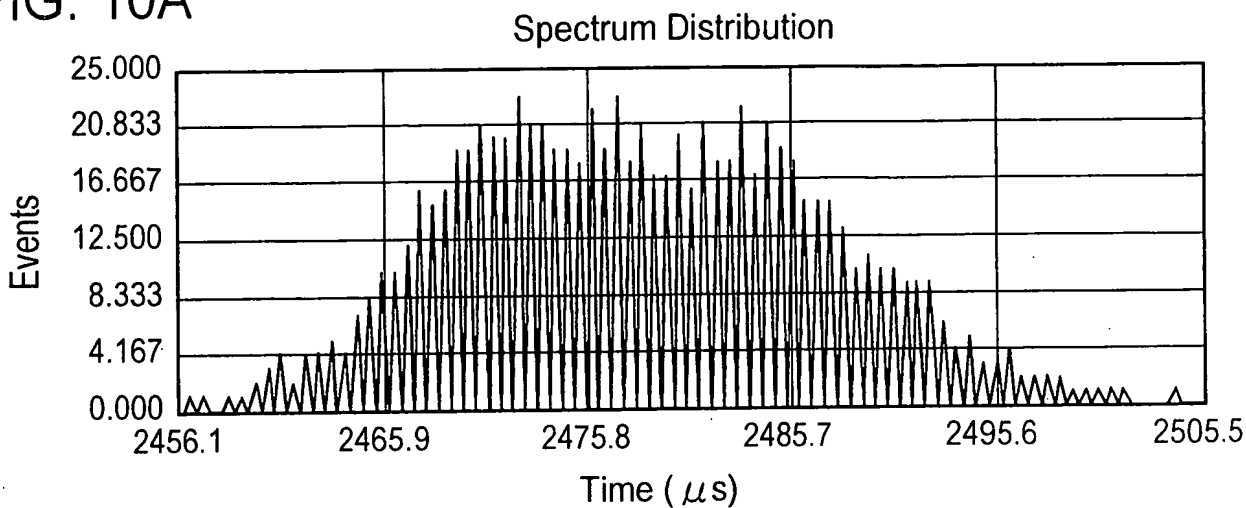


FIG. 10B

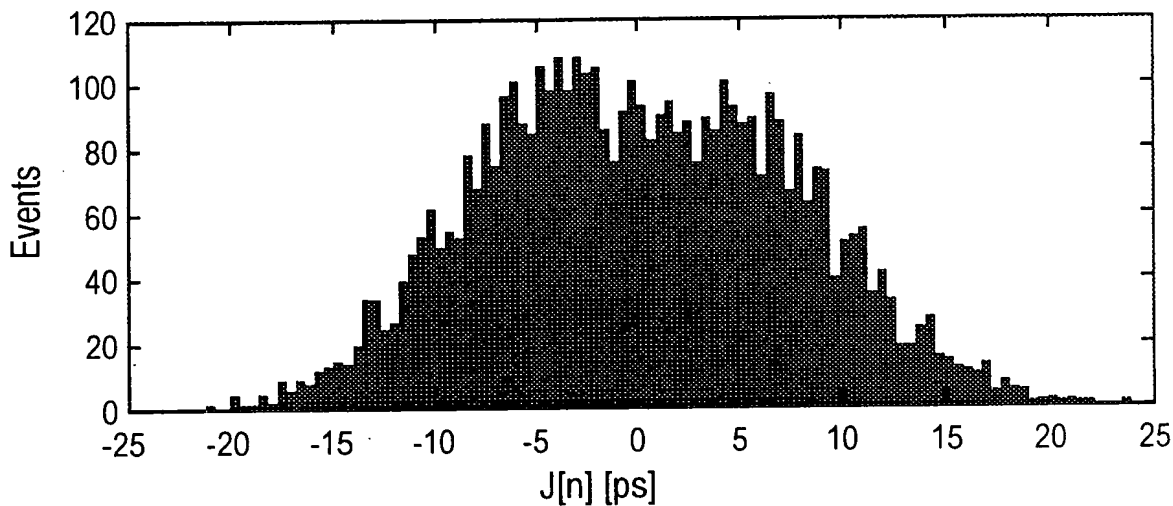


FIG. 11

| Method                        | No. of Events | $J_{RMS}$ | $J_{PP}$ |
|-------------------------------|---------------|-----------|----------|
| Time Interval Analyzer        | 10,000        | 7.72 ps   | 48.2 ps  |
| Corrected $\Delta\phi$ Method | 4,696         | 7.48 ps   | 45.2 ps  |
| Difference                    | -53%          | -3.1%     | +0.4%    |